

ABSTRACT

A mechanical pipe coupling permitting relative axial, torsional and angular deflections between pipes joined together by the coupling is disclosed. Rings, each having a greater outer diameter than the pipe, are attached to each end of the pipes to be joined. Each ring has a circumferential groove that receives an O-ring seal. A band is positioned coaxially around the rings. The band has an inwardly facing surface that sealingly engages the O-rings. A housing is clamped around the rings and the band. The housing has rims radially extending in spaced relationship to the pipes but engage the pipes when they deflect to maintain a radial separation between the housing and the band, allowing the band to float on the O-rings and maintain a fluid tight seal. The housing has inwardly facing shoulders that engage the rings and limit the axial and angular displacement of the pipes within the housing.